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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/960,064	09/21/2001	Gregory Robert Roelofs	US 018156	4365

7590 10/02/2003

Corporate Patent Counsel  
U.S. Philips Corporation  
580 White Plains Road  
Tarrytown, NY 10591

EXAMINER
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BRIER, JEFFERY A

ART UNIT	PAPER NUMBER
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2672

DATE MAILED: 10/02/2003

3

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

09/960,064

**Applicant(s)**

ROELOFS, GREGORY ROBERT

**Examiner**

Jeffery A. Brier

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 September 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

**DETAILED ACTION*****Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Brassell et al. U.S. Patent No. 5,684,510. Brassell describes a system that grid fits glyphs onto pixels in accordance with values P, J and K and pixel coverage values which values force the glyph to one position or another position. Thus, Brassell teaches modeling forces to be applied to the glyph in order to move the glyph to an integer pixel position.

A detailed analysis of the claims follows.

Claim 1	Brassell et al. U.S. Patent No. 5,684,510
1. A rendering system comprising:	See figures 6-8.
a force modeler that is configured to model forces that are applied to a glyph in dependence upon a placement of the glyph, and	See figures 6-8 and column 17 line to column 18 line 6. The values of P, J and K and pixel coverage values are forces that are applied to a glyph in dependence upon the placement of the glyph because they are used when the glyph does not lie wholly on pixels but lies on partial pixels.
a glyph positioner, operably coupled to the force modeler, that is configured to select a preferred placement of the glyph, based on the forces that are applied to the glyph at the preferred placement.	The glyph at figure 7 is modified based upon the force values derived from P, J, and K and the location of the glyph on the pixel grid to produce the glyph shown in figure 8.

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Claim 2:

Step 72 scales the glyph and provides the glyph to the glyph positioner, based on a glyph description from step 71.

Claim 3:

See column 11 lines 27-30 where display 16 and printer 17 are described.

Display 16 and printer 17 will render the glyph at the preferred placement determined by the algorithm of figure 6.

Claim 4:

See figures 6-8, steps 75, 78 and 79 determines the "force" to be applied to the glyph to move the glyph to an integer position, see column 17 lines 20-23 and column 12 lines 56-65, inherently the amount of coverage determines the amount of movement of the glyph from the glyph's location illustrated in figure 7 to its location in figure 8.

Claim 5:

Figure 7 illustrates the set of pixels comprises pixels that are partially covered by the glyph.

Claim 6:

In step 78 the grid fitting takes into account the preferred spacing of the glyph relative to an adjacent glyph, thus, the force to be applied to the glyph is a function of the spacing of the glyphs.

Claim 7:

As stated above for claim 6 the preferred spacing of the glyph relative to an adjacent glyph, thus, the force to be applied to the glyph is a function of the spacing of the glyphs.

Claim 8:

The grid fitting uses at least a linear model.

Claim 9:

Figure 7 illustrates a glyph's coverage over pixels, based upon the coverage the glyph is moved to cover whole pixels, thus, based on a coverage of one or more pixels by the glyph the "force" applied to move the glyph is determined so as to effect a change of the coverage of the one or more pixels by the glyph.

Claim 10 is a method version of apparatus claim 1 which claims the same function claimed in claim 1 and is rejected for the reasons given for claim 1.

Claim 11 is a method version of apparatus claim 2 which claims the same function claimed in claim 2 and is rejected for the reasons given for claim 2.

Claim 12 is a method version of apparatus claim 3 which claims the same function claimed in claim 3 and is rejected for the reasons given for claim 3.

Claim 13 is a method version of apparatus claim 4 which claims the same function claimed in claim 4 and is rejected for the reasons given for claim 4.

Claim 14 is a method version of apparatus claim 5 which claims the same function claimed in claim 5 and is rejected for the reasons given for claim 5.

Claim 15 is a method version of apparatus claim 6 which claims the same function claimed in claim 6 and is rejected for the reasons given for claim 6.

Claim 16 is a method version of apparatus claim 7 which claims the same function claimed in claim 7 and is rejected for the reasons given for claim 7.

Claim 17 is a method version of apparatus claim 8 which claims the same function claimed in claim 8 and is rejected for the reasons given for claim 8.

Claim 18 is a method version of apparatus claim 9 which claims the same function claimed in claim 9 and is rejected for the reasons given for claim 9.

***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 8 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. These claims claim due to the "at least one of" clause more than one of the listed forces. The specification did not describe how more than two of these forces may be integrated together to control the position of the glyph. Thus, it is clear that the claim format of this claim is incorrect since only one of the claimed forces is described controlling the position of the glyph. Therefore it seems the "at least one of" clause should be replaced with a "one of" clause.

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***Prior Art***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Harel et al., U.S. Patent No. 5,598,520, describes using weight values, a type of force, in the hinting process for moving glyphs to integer pixels.

Chan, U.S. Patent No. 6,101,514, teaches grid fitting of glyphs to integer pixels.

The article by Zongker et al. titled "Example-based hinting of true type fonts" describes hinting and grid fitting true type fonts.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffery A. Brier whose telephone number is (703) 305-4723. The examiner can normally be reached on M-F from 6:30 to 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi, can be reached at (703) 305-4713).

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

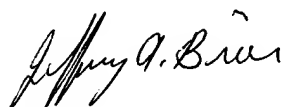
**or faxed to:**

**(703) 872-9314 (for Technology Center 2600 only)**

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

A handwritten signature in black ink, appearing to read "Jeffery A. Brier". The signature is stylized with a large, looped initial "J" and a cursive "Brier".

Jeffery A Brier  
Primary Examiner  
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